

INSTRUCTION AND LECTURES.—Henry Skinner, M. D., Henry A. Pilsbry, Sc. D., Charles Morris, James A. G. Rehn, George S. Morris.

ELECTIONS IN 1919.

MEMBERS.

February 18.—W. Judson Coxe.

April 15.—Edgar Fahs Smith.

November 18.—William H. Van Sickle, Walter Palmer, Hampton L. Carson, Anne Hinchman, Arthur Cope Emlen.

ADDITIONS TO THE MUSEUM

1919.

MAMMALS.

MISS M. C. BOOTH. Mole (*Scalopus aquaticus*). Haverford, Penna.

SAMUEL W. GREEN. Skull of Black Bear (*Ursus americanus*). Moscow, Pa.

RICHARD C. HARLON. Woodland Jumping Mouse (*Napaeozapus insignis*). Huntingdon County, Pennsylvania.

PURCHASED. New York Weasel (*Putorius noveboracensis*). State College, Pa.

DR. WITMER STONE. Fifty mammals. Chiricahua Mountains, Arizona.

ZOOLOGICAL SOCIETY OF PHILADELPHIA. Specimens prepared as follows:
Mounted. Kinkajou (*Potos caudivolvulus*). Skin and Skeleton. Orang-utan (*Pongo pygmaeus*). Huanaco (*Lama glama*). Young male Sumatran Elephant (*Elephas maximus sumatranus*). Skin and skull, Warthog (*Phacochoerus africanus*). Pale Cebus (*Cebus flavescens*). Night Monkey (*Nyctipithecus trivirgatus*). Two Ocelots (*Felis pardalis*). Brazilian Ocelot (*Felis chibigouazou*). Jungle Cat (*Felis chaus*). Young Wild Horse (*Equus prezealskii*). Two warthogs (*Phacochoerus africanus*), 2 male and female. Spring-bok (*Antidorcas euchores*). Red Kangaroo (*Macropus rufus*). Black-tailed Wallaby (*Macropus ualabatus*). Skeleton, Dromedary (*Camelus dromedarius*). Skull, Pigtailed Macaque (*Macaca nemestrina*). Raccoon-like Dog (*Canis procyonoides*).

BIRDS.

MRS. HOWARD GAMBLE. Rose-breasted Cockatoo (*Cacatoes roseicapilla*).

CHAS. G. HERMAN. Eighteen skins of birds. Nicaragua.

MRS. EMMA J. LEWIS. Egg of Sulphur-crested Cockatoo.

W. W. McCALL. Skin of Weaver Finch.

PURCHASED. 650 skins of Colombian birds.

DR. WITMER STONE. Two hundred and two birds and six sets of birds' eggs. Chiricahua Mountains, Arizona.

MRS. E. M. SWAINSON. Mounted Mourning Dove (*Zenaidura macroura*). New York State.

MISS B. TOWN. Several bird skins. New Zealand and New Guinea.

DR. M. P. WARMUTH. Two cases of mounted birds.

E. W. WOOLMAN. Collection of mounted birds and bird skins.

ZOOLOGICAL SOCIETY OF PHILADELPHIA. Specimens prepared as follows: Skin and skeleton, Cassowary (*Casuarius* species). Skin and sternum, Horned Screamer (*Chauna ehararia*). Gray-lag Goose (*Anser anser*). Skin, Coscoroba Swan (*Cosecoroba cosecoroba*). Cereopsis Goose (*Cereopsis novae-hollandiae*). Ruddy Flamingo (*Phoenicopterus ruber*). Stanley's Crane (*Tetrapteryx paradisea*). King Vulture (*Gypaegus papa*). Skull and sternum, Anhinga (*Anhinga anhinga*). Skull, Orinoco Goose (*Alopochen jubata*). Scarlet Ibis (*Guara rubra*). Sarus Crane (*Antigone antigone*). Lilford's Crane (*Grus lilfordi*). Red-sided Eelectus (*Electus roratus*). Senegal Parrot (*Poiocephalus senegalensis*). Satin Bower Bird (*Ptilorhynchus violacea*).

REPTILES AND AMPHIBIANS.

AMERICAN MUSEUM OF NATURAL HISTORY. Collection of reptiles. Belgian Congo.

G. W. BASSETT. Shell of Box Tortoise. New Jersey.

HEBARD-ACADEMY EXPEDITION OF 1919. Collection of reptiles and amphibians. Arizona, Nevada and California.

RUSSELL ROSENFELDT. Newt (*Diemitylus viridescens*). Massachusetts.

DR. R. W. SHUFELDT. Gila Monster (*Heloderma suspectum*). Arizona.

DR. WITMER STONE. Seventy-five reptiles and amphibians. Chiricahua Mountains, Arizona.

ALBERT S. THOMPSON. Jar of reptiles and amphibians. Deerfield, Va.

UNIVERSITY OF MICHIGAN MUSEUM (in exchange). *Ranodon* and *Rana*.

ZOOLOGICAL SOCIETY OF PHILADELPHIA. Young American Crocodile (*Crocodilus americanus*).

FISHES.

WILLIAM DUNCAN. Star Gazer (*Astrospectus guttatus*).

H. W. FOWLER. Five jars of fishes. Bucks, Cumberland and Franklin Counties, Pennsylvania.

HEBARD-ACADEMY EXPEDITION OF 1919. Small lot of fishes. Beatty, Nevada.

MORGAN HEBARD. *Rhombochirus*. Florida. Three jars of fishes. Charlotte Harbor, Florida.

HERMANO APOLINAR MARIA. Catfish. Colombia.

E. S. MATTERN and H. W. FOWLER. Two jars of fishes. Berks County, Pa.

T. L. HANKINSON. Four jars of fishes. Palisades, New Jersey.

W. L. PAULIN. Three *Pterophyllum scalare*.

UNIVERSITY OF MICHIGAN MUSEUM (in exchange). *Etheosoma iowae* and *Catostonus catostomus*.

DR. R. W. VAN DEUSEN and H. W. FOWLER. Three jars of fishes. Cumberland and Salem Counties, New Jersey.

WITMER STONE. Several specimens from the Chiricahua Mts., Arizona.

INSECTS

W. L. ABBOTT. One butterfly, San Domingo.

A. R. ALLEN. Seven insects, Texas.

WILLIAM BEUTENMULLER. Twenty Cynipidæ.

ANNETTE F. BRAUN. Twenty-four Microlepidoptera, Ohio. Two *Coleophora amaranthella* (paratypes), Ohio.

- PHILIP P. CALVERT. *Psilophora maculata* (type), Costa Rica. Eighteen insects, Costa Rica.
- JOSÉ CABRERA. Three specimens of Blattidae.
- D. M. CASTLE. Twenty-five insects, New Jersey.
- T. D. A. COCKFIRELL. Eighty Hymenoptera, South America.
- W. J. COXEY. *Morpho rhetenor*, French Guiana. *Morpho eugenia*, French Guiana.
- NINE EXOTIC LEPIDOPTERA. *Antheraea helena*, Australia. Three butterflies from Assam and Java. *Papilio coon*, Java.
- W. J. CRESSON, Jr. One moth, Swarthmore, Penna.
- W. T. DAVIS. *Cacama variegata* (cotype), Texas.
- J. H. FERRIS. Four Coleoptera, New Mexico.
- EXCHANGE. Sixty butterflies, Utah.
- W. J. FOX. Two Coleoptera, Philadelphia.
- GEORGE M. GREEN. Fifty-two Coleoptera, United States.
- FRANK HAIMBACH. Eight *Catocala*, New Mexico. Two moths, New Jersey.
- D. E. HARROWER. Three hundred and fifty-six Lepidoptera, Central America.
- TWENTY INSECTS. Central America.
- HAWAIIAN SUGAR PLANTER'S ASSOCIATION. Nine Orthoptera, Philippines.
- MORGAN HEBARD. Four thousand five hundred Orthoptera, western United States. Twenty-three Orthoptera, Colombia. Two hundred and twenty-five Orthoptera, Mexico and Central America. Nineteen Orthoptera; Japan. Seven Orthoptera, United States. Sixteen Lepidoptera, Florida. One *Plusia*, Florida. Twenty-three insects, Florida. Twenty-two Lepidoptera, Florida. Fifteen Coleoptera, United States. Sixty-three insects, Florida.
- HERMAN HORNIG. One hundred and fifty Diptera, Philadelphia.
- A. R. ILLIFF. Nineteen Orthoptera, New Mexico.
- FRANK M. JONES. Seventy-five Diptera, and 41 Orthoptera, Western United States.
- J. N. KNULL. Two *Dicra tepida*, Pennsylvania.
- A. W. LINDSEY. Five Hesperidae, South America.
- FRANK R. MASON. *Nothus luteus*, California.
- LEVI W. MENGEL. One moth, Colombia. *Perisama sinerubra* (type), Bolivia.
- R. OTTOLENGUI. Five moths, California.
- GEORGE F. PETTINOS, Jr. Gynandromorphic *Papilio glaucus*, Merion, Pennsylvania.
- PURCHASED. Four hundred and fifty-two Orthoptera, Pará, Brazil. Five hundred and ten Orthoptera, Argentina. Seventeen *Cicada*, sixty-six *Argynnis*, Neuroptera, Colorado.
- HENRY SKINNER. Twenty-one insects, White Mountains, New Hampshire. Twenty-one butterflies, Arizona.
- STATE DEPARTMENT OF AGRICULTURE. Eight Diptera, Pennsylvania.
- WITMER STONE. Four thousand insects from the Chiricahua Mountains, Arizona.
- UNIVERSITY OF MICHIGAN. Two hundred and forty-two Diptera, Pennsylvania.
- UNIVERSITY OF CALIFORNIA. Eleven Orthoptera, California.
- E. C. VAN DYKE. Four Coleoptera, California.
- L. H. WELD. Two *Charips leguminosa* (paratypes), Idaho.
- JOHN H. WEST. Six *Catocala*, Utah.

RECENT MOLLUSCA.

- DR. W. L. ABBOTT. Seventy-six trays of shells from Hayti.
- W. O. ABBOTT. Twenty-eight trays of shells from Massachusetts and Pennsylvania.
- JACOB AEBLY. *Ityanassa obsoleta* Say from a duck.
- REGINALD ALLEN. Five species of marine shells.
- A. BAILEY. *Sphaerium sulcatum* Lam. from Columbia, New York.
- F. C. BAKER. Six species of freshwater shells from New York and Illinois.
- DR. FRED BAKER. Four species of shells from Brazil.
- MRS. W. L. BAKER. Twenty-five species of marine shells from Florida.
- NATHAN BANKS. *Bulimulus liquabilis* Rve from near Brownsville, Texas.
- S. S. BERRY. Nine trays of land shells from California.
- DR. J. BEQUAERT. Six species of African land shells.
- HUGO BILGRAM. *Polinices duplicata* Say from Atlantic City, New Jersey.
- LOUIS H. BREGG. Twelve species of land and marine shells.
- DR. W. T. BRIGHAM. Twelve trays of land shells from Hayti.
- MRS. W. A. BRYAN. Twelve trays of shells from New York.
- W. A. BRYAN. Cotypes of *Tapes philippinarum kupa* Bryan from Oahu.
- MRS. H. H. BUCKMAN. *Pyramidula alternata* Say from Au Sable Gorge, New York.
- H. C. BURNUP. Five trays of African land shells.
- DR. P. P. CALVERT. Two species of shells from Costa Rica.
- G. H. CLAPP. *Gastrocoptis delicata* Pils from Cat Cay, Bahama Islands.
- W. F. CLAPP. Twenty-five trays of land shells.
- J. B. CLARK. Forty-eight trays of shells from Florida.
- T. D. A. COCKERELL. Two species of land shells.
- EMILY COLLINS COLLECTION. Twenty-eight species of shells.
- PROF. FRANCO CONTRERAS. Four species of *Naiades* from Mexico.
- DR. C. M. COOKE. Eighty-five trays of land shells from Vancouver Island and Hawaiian Islands.
- W. J. CRESSON, JR. Two species of marine shells.
- DR. FLORENTINO FELIPPONE. Twelve trays of shells from Uruguay.
- J. H. FERRISS. Eighty-four trays of land shells from South Western United States.
- J. H. FERRISS AND E. HAND. *Vertigo sterkii* Pils from near Kern River, California.
- W. J. FOX. *Limax flavus* L. from Philadelphia, Pennsylvania.
- FRIENDS' CENTRAL SCHOOL. Seven species of marine shells.
- G. M. GREENE. Two species of marine shells.
- J. M. HAWLEY. Two species of land shells from New York.
- MISS HAYES. *Argonauta tuberculosa* Lam.
- MORGAN HEBARD. Twenty-eight trays of shells from Florida.
- J. B. HENDERSON. Ten trays of shells from Cuba and the United States.
- A. A. HINKLEY. Seventy-four trays of shells from Guatemala and Mexico.
- A. A. HINKLEY AND J. H. FERRISS. Eighty-four trays of land shells from Arizona.
- C. W. JOHNSON. *Oliva cærutea* Bolt. from New Guinea.
- F. J. KEELEY. Two species of shells from Pennsylvania and Florida.
- C. H. KENNEDY. *Zonitoides arborea* Say from Bay Shore, near Baltimore, Maryland.

BAYARD LONG. Ninety-three trays of shells from the Eastern United States.
 W. G. MAZYCK. *Polita rhoadsi* Pils. from Williamsburg County, South Carolina.

R. A. McCONNELL. Four species of Mexican land shells.

REV. H. E. MEYER. Fourteen species of land shells.

J. B. MOCKRIDGE. Three marine shells from England and Florida.

CLARENCE B. MOORE. For y two trays of land shells from Florida.

F. OLDACH. *Elimia virginica* Gm. Tulpohocken Creek, near Reading, Pennsylvania.

J. M. OSTERGARD. Two species of marine shells from Oahu.

DR. H. A. PILSBRY. One hundred and fifty-three trays of shells.

PURCHASED. One hundred and fifty-two trays of exotic shells.

CHAS. T. RAMSDEN. *Vaginulus* from Cuba.

S. N. RHOADS. Seven trays of shells from Guatemala.

J. REHN and M. HEBARD. Fourteen trays of shells from Southern United States.

DR. EMMET RIXFORD. *Epiphragmophora* from California.

C. T. SIMPSON. Seventy trays of *Liguus* from Florida.

BURNETT SMITH. Twenty-four trays of shells from New York.

GEO. C. SPENCE. Five species of exotic shells.

DR. V. STERKI. Twenty-nine trays of North American shells.

DR. WITMER STONE. Twenty-five trays of shells Chiricahau Mts., Arizona.

MRS. E. M. SWAINSON. *Turritella duplicata* Lam.

E. G. VANATTA. One hundred and six trays of shells.

GILBERT VAN INGEN. One hundred and sixty-eight trays of shells from New York.

BRYANT WALKER. Six hundred and forty-six trays of land and fresh water shells.

MISS MARY E. WALKER. Three species of fresh water shells from New York.

MISS H. N. WARDLE. Two species of land shells from Pennsylvania.

JOSEPH WILLCOX. Five marine shells.

GEORGE WILLETT. *Velutina rubra* W. from Forrester Island, Alaska.

W. P. WOODRING. *Succinea grosvenori* Lea from Wolf Point, Montana.

B. B. WOODWARD. Ten trays of *Pisidium* from Europe.

JAMES ZETEK. Forty-nine trays of shells from Panama.

OTHER INVERTEBRATES.

L. S. ADAMS. One starfish.

MRS. W. L. BAKER. *Balanus galcatus* L., upon gorgonians from Osprey, Florida.

J. B. CLARK. One tray of *Lingula* from Florida.

R. E. COKER. *Balanus* from near Key West, Florida.

DR. FLORENTINO FELIPPONE. Three trays of invertebrates from South America.

JARVIS B. GRUBB. One starfish. Cape May, New Jersey.

PURCHASED. Nine trays of invertebrates.

MRS. MARY LUDWIG SUYDAM. Collection of corals.

UNITED STATES NATIONAL MUSEUM. Four species of barnacles from California and Florida.

FOSSIL INVERTEBRATES.

JAMES B. CLARK. Portion of scapula of fossil elephant (*Elephas*). Near Dawson, Yukon, Alaska.

G. W. BASSETT. *Belemnitella americana* Mort. from a well at Middletown, New Jersey.

J. B. CLARK. Six species of fossil shells from Florida.

T. D. A. COCKERELL. Fourteen fossil insects and two fossil spiders. Florissant, Colorado.

DAVID DALLAM. One fossil.

DR. H. A. PILSBRY. Three species of fossil from Wolcott Creek, New York.

FOSSIL PLANTS

BRO. G. ARSINE. Two phials of fossil diatoms. Auvergne, France.

HERBARIUM.

MISS ALICE A. ALBERTSON. Ten specimens from Nantucket, Massachusetts.

GEORGE W. BASSETT. Number of small collections from New Jersey.

SAMUEL N. BAXTER. *Synplocos pariculata*, cultivated.

WALTER M. BENNER. Four specimens from eastern Pennsylvania.

REV. T. R. BRENDLE. Number of specimens from the Perkiomen Valley, Pennsylvania.

O. H. BROWN. Two hundred and twenty-four specimens from Cape May County, New Jersey.

ELIZABETH S. BROWN. Collection of Myxomycetes of the late Dr. Amos P. Brown.

STEWARDESON BROWN. *Callitriche anatini* from Germantown, Philadelphia.

MACY CARHART. *Gentiana saponaria* from Keyport, New Jersey.

M. CHAPMAN. *Ilce opaca* from Purmont, New Jersey.

MRS. DEVEREUX. Three specimens from Maine, fifty specimens from North Carolina.

MRS. JOSEPH FOX. *Firmiana ptatinifolia* in fruit, from McPhersonville, South Carolina.

C. D. FRETZ, M. D. Eighteen specimens from Bucks County, Pennsylvania.

MRS. ADELE LEWIS GRANT. 9 species of *Mimulus* from California.

JOHN W. HARSHBERGER, Ph. D. 15 species from Hackensack Marshes, New Jersey.

ARTHUR N. LEEDS. 2 species from eastern Pennsylvania.

CHARLES D. LIPPINCOTT. *Allium tricoccum* from Harrisonville, New Jersey.

S. LLOYD. *Lycopodium obscurum* from Cold Spring, Cape May County, New Jersey.

BAYARD LONG. 36 specimens from New Jersey, Pennsylvania and Delaware.

JOSEPH R. MUMBAUER. *Viola canadensis* and *V. cucullata* from Berks County, Pennsylvania.

ALEXANDER MACELWEE. 14 plants from New Jersey.

REV. J. P. OTIS. *Rumex nuxicanus* and *Vernonia glauca* from New Castle County, Delaware.

T. CHALKLEY PALMER. *Centaureum pulchellum* from Chester County, Pennsylvania.

HAROLD W. PRETZ. 242 specimens, chiefly from Lehigh County, Pennsylvania.

- MISS ALICE L. SMITH. Herbarium of the late Benjamin H. Smith.
 WITMER STONE. Collection of flowering plants and ferns from Cape May, New Jersey. 1002 sheets of plants collected in the Chiricahua Mts., Arizona.
 JOSEPH STAKES. *Veronica tournefortii* from Moorestown, New Jersey.
 H. W. TRUDELL. *Solidago rigida* from Berks County, Pennsylvania.
 S. S. VAN PELT. 2 specimens of local plants
 MORGAN HEBARD. 24 specimens from California.
 NEW YORK BOTANICAL GARDEN. 249 specimens. In exchange.
 UNITED STATES NATIONAL MUSEUM. 16 specimens. In exchange.
 PURCHASED. 1215 plants from North America. Collected by Bayard Long.

MINERALS.

- BRO. G. ARSINE. Lava with maize impressions. La Soledad, near Morelia, Michoacan, Mexico.
 J. H. DROSSER. Wulfenite crystals. Rodeo, New Mexico.
 SAMUEL G. GORDON. Sixty-eight specimens of minerals from Pennsylvania.
 THOMAS HARVEY. Collection of 3000 Pennsylvania minerals.
 BENTLY R. MORRISON. Collection of minerals, French Creek, Pennsylvania.
 FREDERICK PIERCE. Collection of minerals, Boothwyn, Pennsylvania.
 W. L. STEVENSON. Collection of minerals made by the late W. G. Stevenson.
 MRS. MARY LUDWIG SUYDAM. Collection of minerals.
 H. F. ZERGER. Moss agate, Lancaster County, Pennsylvania.

ETHNOLOGY AND ARCHEOLOGY.

- MISS VIRGINIA HARTSHORNE. Mummy head and mummy shawl. Egypt.
 CLARENCE B. MOORE. Type collection made by Mr. Moore in his early researches of artifacts from the shell-heaps of Florida.

PHYSICAL APPARATUS.

- MISS ELIZABETH S. BROWN. Three microscopes, objectives, accessories and miscropic slides, formerly the property of the late Dr. A. P. Brown.
 DR. HERMAN BURGIN. Contact goniometer.